

**Preliminary Air Monitoring Results Summary Table**  
**Monitoring Period: 01/12/2023 08:35 to 01/12/2023 13:04**  
**La Salle Chemical Fire Site Emergency Response**  
**La Salle, La Salle County, Illinois**

There were no detections above screening levels during the monitoring period (see below). Air monitoring did not show any levels of concern. The data below were taken at the fire site and in the surrounding community, following wind patterns. EPA screened for known chemicals that were at the site and particulate matter from the fire. The map shows the monitoring locations.

Location	Date/Time	O <sub>2</sub> (%)	LEL (%)	CO (ppm)	H <sub>2</sub> S (ppm)	VOC (ppm)	HCl (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	HCN (ppm)	Cl <sub>2</sub> (ppm)
		Screening Levels <sup>1</sup>									
		19.5% to 23.5%	5%	25 ppm	10 ppm	0.5 ppm	2.5 ppm	2,500 µg/m <sup>3</sup>	2,500 µg/m <sup>3</sup>	5 ppm	0.5 ppm
B-01	1/12/2023 8:35	20.9	0.0	0.0	0.0	0.0	0.0	38	38	0.0	0.0
	1/12/2023 10:10	20.9	0.0	0.0	0.0	0.0	0.0	17	17	0.0	0.0
	1/12/2023 11:07	20.9	0.0	0.0	0.0	0.0	0.0	16	16	0.0	0.0
	1/12/2023 12:08	20.9	0.0	0.0	0.0	0.0	0.0	10	10	0.0	0.0
B-02	1/12/2023 8:42	20.9	0.0	0.0	0.0	0.0	0.0	34	35	0.0	0.0
	1/12/2023 10:16	20.9	0.0	0.0	0.0	0.0	0.0	15	15	0.0	0.0
	1/12/2023 11:14	20.9	0.0	0.0	0.0	0.0	0.0	16	16	0.0	0.0
B-03	1/12/2023 12:22	20.9	0.0	0.0	0.0	0.0	0.0	9	9	0.0	0.0
	1/12/2023 10:31	20.9	0.0	0.0	0.0	0.0	0.0	--	--	0.0	0.0
	1/12/2023 11:22	20.9	0.0	0.0	0.0	0.0	0.0	16	16	0.0	0.0
B-04	1/12/2023 12:53	20.9	0.0	0.0	0.0	0.0	0.0	15	15	0.0	0.0
	1/12/2023 9:12	20.9	0.0	0.0	0.0	0.0	0.0	30	30	0.0	0.0
	1/12/2023 10:39	20.9	0.0	0.0	0.0	0.0	0.0	15	15	0.0	0.0
	1/12/2023 11:27	--	0.0	0.0	0.0	0.0	0.0	14	14	0.0	0.0
SR-02	1/12/2023 13:04	20.9	0.0	0.0	0.0	0.0	0.0	13	13	0.0	0.0
	1/12/2023 10:48	20.9	0.0	0.0	0.0	0.0	0.0	14	14	0.0	0.0
SR-04	1/12/2023 10:56	20.9	0.0	0.0	0.0	0.0	0.0	14	14	0.0	0.0

Notes:

The fire was extinguished at 12:30pm on 1/12/2023.

<sup>1</sup> The preliminary screening levels used are one half of the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL). OSHA PELs are regulatory limits on the amount or concentration of a substance in the air meant to protect workers against the health effects of exposure to hazardous substances. The OSHA PEL for Particulates Not Otherwise Regulated (PNOR) respirable fraction was used for PM<sub>10</sub> and PM<sub>2.5</sub>. The OSHA PEL for benzene was used for VOC measurements.

% - percent

µg/m<sup>3</sup> - microgram per cubic meter

Cl<sub>2</sub> - chlorine

CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

HCl - hydrogen chloride

HCN - hydrogen cyanide

LEL - lower explosive limit

O<sub>2</sub> - oxygen

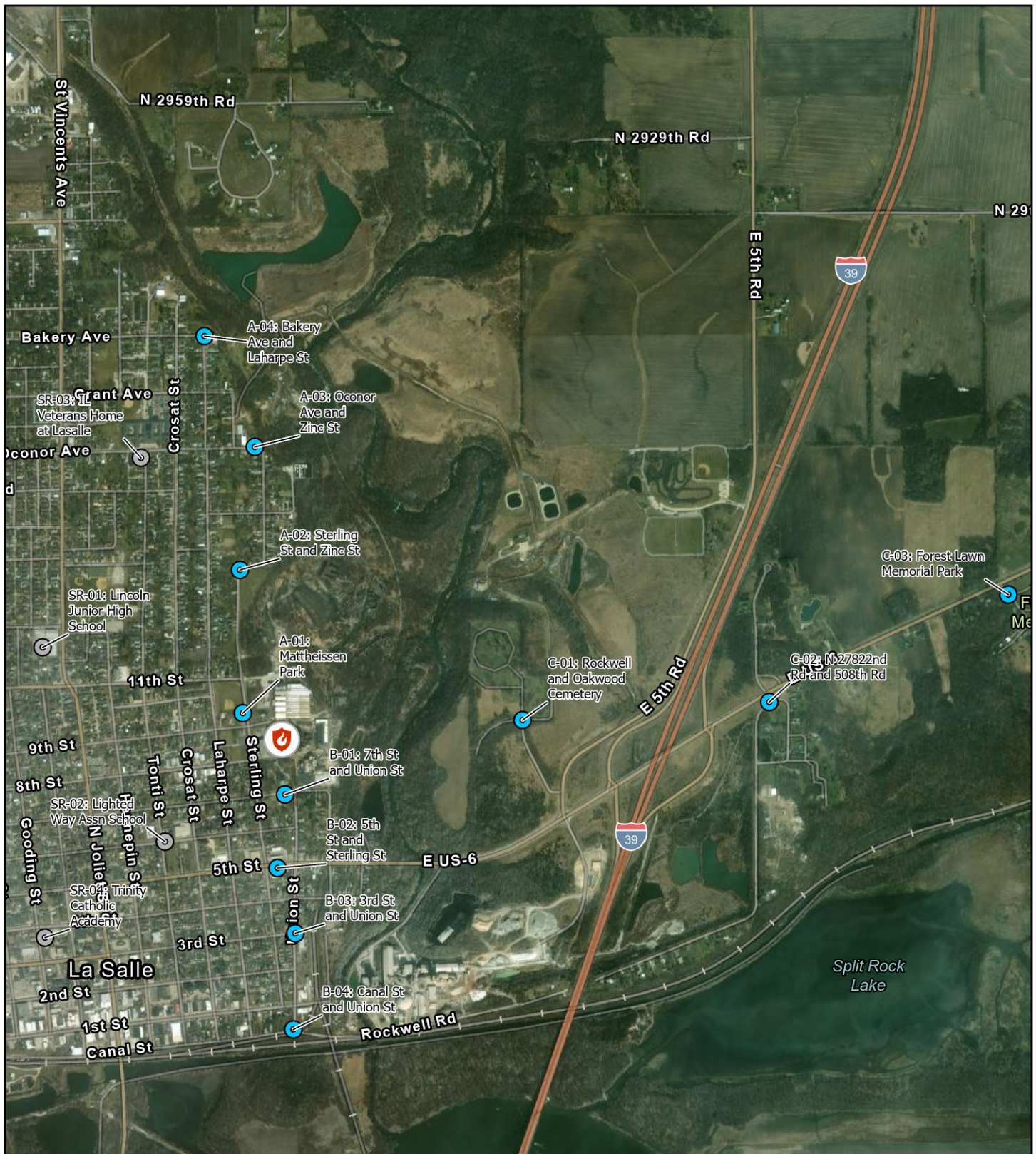
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

PM<sub>10</sub> - particles that are 10 micrometers and smaller

ppm - parts per million

VOC - volatile organic compounds

The maximum result measured at each location during the monitoring period 01/12/2023 08:35 to 01/12/2023 13:04 is shown in the table.



#### Site Location



#### Legend

##### Roaming Air Monitoring Locations

##### Location Type

- Sensitive Receptor
- Transect
- Fire Location

N



0 1,000 2,000



Feet

La Salle Chemical Fire  
La Salle, La Salle County,  
Illinois

**Figure 1**  
Roaming Air Monitoring Locations



Prepared For: EPA

Prepared By: Tetra Tech Inc.